

IN THE CLAIMS:

Claims 2, 5 - 11, 14, 16, and 35 - 36 have been amended. Claims 1, 12, 13, and 34 have been cancelled.

Claim 1 (cancelled).

2. (currently amended) ~~The radiation source according to claim 1,~~ A radiation source comprising:

an outer housing having a fastener, said outer housing configured to be opened;

a substrate removably contained within said outer housing, said substrate having a front surface; and

a radioactive deposit fixedly deposited upon said front surface within said outer housing, said radioactive deposit having a radioisotope wherein said substrate is flexible.

3. (previously presented) A radiation source comprising:

an outer housing having a fastener, said outer housing configured to be opened;

a substrate removably contained within said outer housing, said substrate having a front surface; and

a radioactive deposit fixedly deposited upon said front surface within said outer housing, said radioactive deposit having a radioisotope, wherein said substrate is flexible, said substrate has a first form factor when contained within said outer housing, and said substrate is manipulable to have a second form factor smaller than said first form factor when said substrate is removed from said outer housing.

4. (original) The radiation source according to claim 2, wherein said substrate is made of one of paper and plastic.

5. (currently amended) ~~The radiation source according to claim 1,~~ A radiation source comprising:

an outer housing having a fastener, said outer housing configured to be opened;

a substrate removably contained within said outer housing, said substrate having a front surface; and

a radioactive deposit fixedly deposited upon said front surface within said outer housing, said radioactive deposit having a radioisotope, wherein at least a portion of said radioactive deposit has at least two layers.

6. (currently amended) The radiation source according to claim 5, wherein ~~[[the]]~~ an activity density of each of said at least two layers is the same.

7. (currently amended) ~~The radiation source according to claim 1~~ A radiation source comprising:

an outer housing having a fastener, said outer housing configured to be opened;

a substrate removably contained within said outer housing, said substrate having a front surface; and

a radioactive deposit fixedly deposited upon said front surface within said outer housing, said radioactive deposit having a radioisotope, wherein said substrate is radiopaque.

8. (currently amended) ~~The radiation source according to claim 1~~ A radiation source comprising:

an outer housing having a fastener, said outer housing configured to be opened;  
a substrate removably contained within said outer housing, said substrate having  
a front surface; and  
a radioactive deposit fixedly deposited upon said front surface within said outer  
housing, said radioactive deposit having a radioisotope, wherein said radioactive  
deposit includes a colorant.

9. (currently amended) The radiation source according to claim 8, wherein a  
color of a portion of said radioactive deposit corresponds to ~~[[the]]~~ an activity level of  
said portion of said radioactive deposit

10. (currently amended) ~~The radiation source according to claim 1~~ A radiation  
source comprising:

an outer housing having a fastener, said outer housing configured to be opened;  
a substrate removably contained within said outer housing, said substrate having  
a front surface; and  
a radioactive deposit fixedly deposited upon said front surface within said outer  
housing, said radioactive deposit having a radioisotope, wherein said radioactive  
deposit includes a binding agent for fixedly depositing said radioactive deposit on said  
front surface.

11. (currently amended) ~~The radiation source according to claim 1~~ A radiation  
source comprising:

an outer housing having a fastener, said outer housing configured to be opened;

a substrate removably contained within said outer housing, said substrate having a front surface; and  
a radioactive deposit fixedly deposited upon said front surface within said outer housing, said radioactive deposit having a radioisotope, wherein said radioactive deposit is fixedly deposited upon said front surface by covering said radioactive deposit and said front surface with a sealing layer.

Claims 12 and 13 (cancelled).

14. (currently amended) ~~The radiation source according to claim 1~~ A radiation source comprising:

an outer housing having a fastener, said outer housing configured to be opened;  
a substrate removably contained within said outer housing, said substrate having a front surface; and  
a radioactive deposit fixedly deposited upon said front surface within said outer housing, said radioactive deposit having a radioisotope, further including a second substrate with a second radioactive deposit deposited thereon, said second substrate being contained within said outer housing.

15. (original) The radiation source according claim 14, wherein the combination of said radioactive deposit and said second radioactive deposit produces a desired radioactive deposit.

16. (currently amended) ~~The radiation source according to claim 1~~ A radiation source comprising:

an outer housing having a fastener, said outer housing configured to be opened;

a substrate removably contained within said outer housing, said substrate having  
a front surface; and  
a radioactive deposit fixedly deposited upon said front surface within said outer  
housing, said radioactive deposit having a radioisotope, wherein said radioactive  
deposit has a substantially uniform activity distribution.

17. (previously presented) A radiation source for calibration of nuclear imaging  
equipment, said radiation source comprising:

an outer housing having a fastener, said outer housing configured to be opened;  
a flexible substrate removably contained within said outer housing, said  
substrate having a front surface; and

a radioactive deposit fixedly deposited upon said front surface within said outer  
housing, said radioactive deposit having a radioisotope, a binding agent, and a colorant,  
wherein

at least a portion of said radioactive deposit has at least two layers, each layer  
having substantially the same activity density, and

a color of a second portion of said radioactive deposit indicates the activity level  
of said portion of said radioactive deposit.

18. (previously presented) A radiation source for calibration of nuclear imaging  
equipment, said radiation source comprising:

an outer housing having a fastener, said outer housing configured to be opened;  
a flexible substrate removably contained within said outer housing, said  
substrate having a front surface;

a radioactive deposit fixedly deposited upon said front surface within said outer housing, said radioactive deposit having a radioisotope, and a colorant; and  
a sealing layer covering said radioactive deposit and said front surface of said substrate, wherein

at least a portion of said radioactive deposit has at least two layers, each layer having substantially the same activity density, and

a color of a second portion of said radioactive deposit indicates an activity level of said second portion of said radioactive deposit.

Claims 19 - 34 (cancelled)

35. (currently amended) ~~The nuclear imaging system of claim 34~~ A nuclear imaging system, comprising:

a piece of nuclear imaging equipment to be calibrated; and

a radiation flood source to calibrate the piece of nuclear imaging equipment

including,

an outer housing having a fastener, said outer housing configured to be

opened,

a substrate removably contained within said outer housing, said substrate

having a front surface; and

a radioactive deposit fixedly deposited upon said front surface within said

outer housing, said radioactive deposit having a radioisotope, further including a second

substrate with a second radioactive deposit deposited thereon, said second substrate

being contained within said outer housing.

36. (currently amended) ~~The nuclear imaging system of claim 34~~ A nuclear imaging system, comprising:  
a piece of nuclear imaging equipment to be calibrated; and  
a radiation flood source to calibrate the piece of nuclear imaging equipment  
including,  
an outer housing having a fastener, said outer housing configured to be  
opened,  
a substrate removably contained within said outer housing, said substrate  
having a front surface; and  
a radioactive deposit fixedly deposited upon said front surface  
within said outer housing, said radioactive deposit having a radioisotope, wherein  
the combination of said radioactive deposit and said second radioactive deposit  
produces a desired radioactive result.

37. (previously presented) A radiation source for calibration of nuclear imaging  
equipment, said radiation source comprising:

an outer housing having a fastener, said outer housing configured to be opened;  
a flexible substrate removably contained within said outer housing, said  
substrate having a front surface; and

a radioactive deposit fixedly deposited upon said front surface within said outer  
housing, said radioactive deposit having a radioisotope, a binding agent, and a colorant,  
wherein

said substrate has a first form factor when contained within said outer housing,  
and said substrate is manipulable to have a second form factor smaller than said first  
form factor when said substrate is removed from said outer housing;

at least a portion of said radioactive deposit has at least two layers, each layer  
having substantially the same activity density, and

the color of a portion of said radioactive deposit indicates the activity level of said  
portion of said radioactive deposit.